Materials List for:

In Vitro Recording of Mesenteric Afferent Nerve Activity in Mouse Jejunal and Colonic Segments

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Materials

Name	Company	Catalog Number	Comments
sodium chloride (NaCl)	VWR Chemicals	27,810,295	compound Krebs solution
potassium chloride (KCl)	Acros organics	196770010	compound Krebs solution
sodium dihydrogen phosphate (NaH_2PO_4)	VWR Chemicals	1,063,461,000	compound Krebs solution
sodium bicarbonate ($NaHCO_3$)	Merck	1,063,291,000	compound Krebs solution
magnesium sulfate ($MgSO_4$)	Merck	1,058,861,000	compound Krebs solution
calcium chloride ($CaCl_2$)	Merck	23,811,000	compound Krebs solution
D-glucose	VWR Chemicals	1011175P	compound Krebs solution
Distilled water			compound Krebs solution
PVC tubing	Scientific Laboratory Supplies		The intestinal segment should be mounted over PVC tubing
Silicone tubing	Scientific Laboratory Supplies		The rest of the tubing, ideally silicone-based - more easily dislodging of debris in the tubing
Silk thread	Pearsall Limited	10B15S220	Attachment of the segment over the PVC tubing
Syringe driver	Harvard Apparatus	55-2222	Intraluminal infusion of Krebs
Binocular - including 10X magnification in oculair	Zeiss STEMI 2000		Optimal visualization for the dissection of the afferent nerve
Homeothermic Blanket Control Unit	Harvard Apparatus	507214	Heating of the organ chamber
Custom made organ bath with Sylgard covered bottom			
Spike2 software			Recording and analysis of the data
Insect pins, 500 pieces, stainless steel, diameter 0.2 mm	Austerlitz insect pins minutiens		Dissection of the afferent nerve
Tweezer Dumont #5 inox 11 cm	World Precision Instrument	500341	Dissection of the afferent nerve
Scissors, spring, 14 cm	World Precision Instrument	15905	Dissection of the afferent nerve
DB digitimer	NL 108T2/10		pressure transducer
Micromanipulator	Narishige	M-3333	3D manipulation of the suction electrode
Micromanipulator	X-4 rotating block		3D manipulation of the suction electrode

Micromanipulator	GJ-8 magnetic stand		3D manipulation of the suction electrode
LightSource	Euromex Microscopes Holland EK-1		Optimal visualization for the dissection of the afferent nerve
CED 1401 Recording Apparatus			Recording of afferent nerve activity
Humbug 50/60 Hz Noise Eliminator	Quest Scientific Instruments		Elimination of background noise
Infusion Pump	Gibson Minipuls 2		Infusion of the organ chamber in which the segment is mounted
Microelectrode Holder Half Cells 1.5 mm	World Precision Instrument	MEH2SW	Suction electrode for isolation of the afferent fiber
Borosilicate Glass Capillaries, 300 pc; 1.5/0.84 OD/ID	World Precision Instrument	1B150-4	Capillary for the isolation of the afferent nerve